Pan and Tilt Network Camera



User's Guide

Software Version 2.1.7

PT IP Cam / IR IP Cam / Video Server Series

© 2004~2005. Owner's Record

The model and serial numbers are located at the bottom. Record these numbers in the spaces provided below. Refer to these numbers whenever you call upon your dealer regarding this product.

Model No. _____ Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

For AC Adaptor to avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

For customers in the U.S.A.

This equipment has been tested and found to comply with the limits for a digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Part 15 of FCC Rules.

Declaration of Conformity

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

NOTICE TO USERS

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We reserves the right to make any modification to this manual or the information contained herein at any time without notice. The software described herein may also be governed by the terms of a separate user license agreement.

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Overview

This user's guide explains how to operate the Network Camera from a computer. Basically, the user's guide is written to be read on the computer display. However, users might consider printing it out to access easily and read it before you operate the Network Camera.

Introduction

This Network Camera is an inexpensive fully scalable surveillance technology. Because the Network Cameras can be plugged in to your existing computer network infrastructure, you will potentially save thousands of dollars on unnecessary cabling.

The Network Camera is accessible via the LAN or Internet connection. Connect your Network Camera directly to a computer network or DSL modem, and with a standard Web browser you get instant, on demand video streams. Within minutes you can set up the Network Camera to capture a video sequence to a PC. Live video image can be uploaded to a website for the world to see or made available only to select users on the network.

Features:

- High quality 1/3" CCD sensor
- Composite video output
- Motorized and wide-range pan and tilt operation
- 16 Preset Points
- JPEG video compression
- Built-in internal microphone
- Remote-Control via Internet Explorer
- Support statistic and dynamic IP address
- DDNS and PPPoE
- CF memory card interface (for CF card enabled version only)
- Multi-channel control software for surveillance application
- On-line firmware upgrade

Application:

- Remote monitoring
- Surveillance

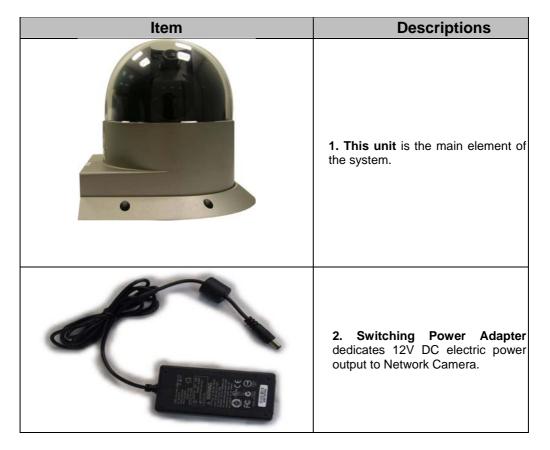
Minimum System Requirement

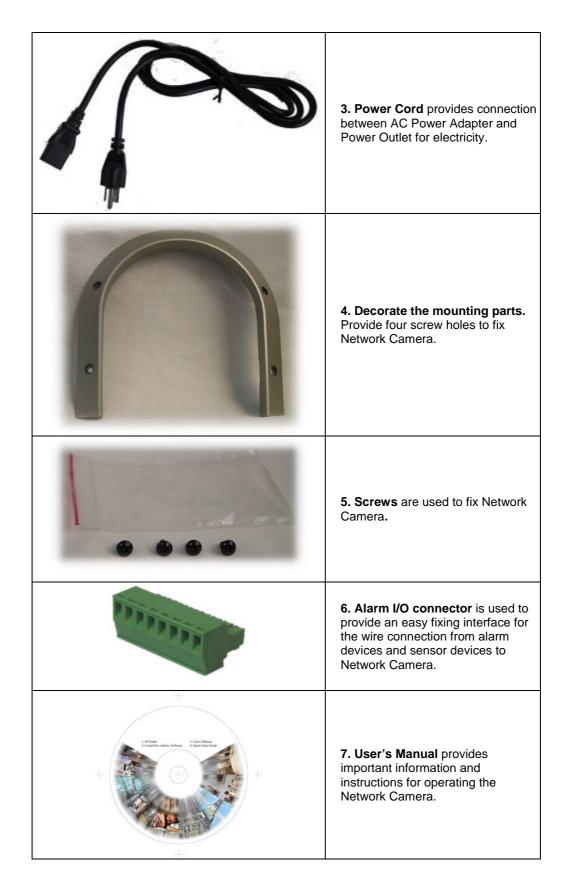
- Microsoft Internet Explorer 5.0 or later
- VGA Monitor resolution 1024 x 768
- Pentium 4 1.3GHz or above
- Memory Size: 256MB or above
- Windows ME, 2000, XP, or 2003

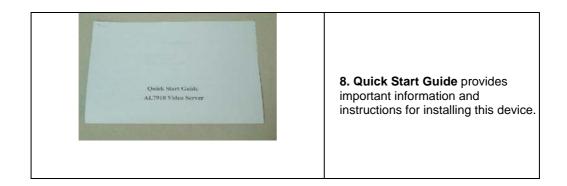
Package Contents

User can find the following items in the package:

- 1. PT Network Camera x 1
- 2. Power adapter x 1
- 3. Power cord x 1
- 4. Decoration ring x 1
- 5. Screw x 4
- 6. Terminator for Alarm I/O x 1
- 7. Installation software and manual CD x 1
- 8. Quick Start Guide x 1



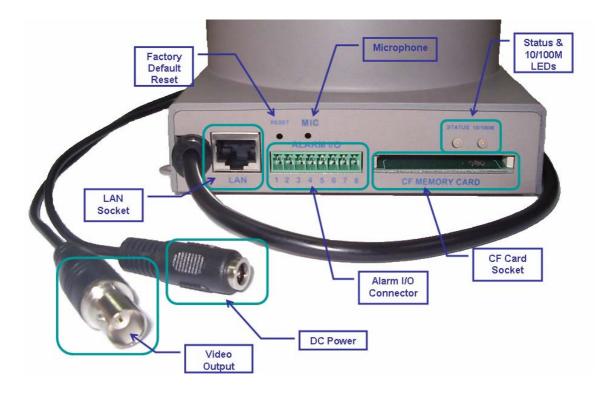




If any of the above items are missing, please contact your dealer immediately.

Note: Using a power supply with a different voltage than the one included with the Network Camera will cause damage and void the warranty for this product.

Connections



DC Power and Video Output Cable

The DC power input and video output cable are located on the Network Camera's back panel. The input power is 12VDC. Note that supply the power to the Network Camera with standard power adapter included in package. Otherwise, the improper power adapter may damage the unit and result in danger.

The Network Camera also provides composite video output. User can use BNC video cable to connect the Network Camera with a TV monitor or VCR.

LAN Socket

Beside the DC power and video output cable, the LAN socket is an RJ-45 connector for connections to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. This Ethernet port built NWay protocol can detect or negotiate the transmission speed of the network automatically. Please use Category 5 "straight through" cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub.

Alarm I/O Connector

The Network Camera provides a terminal block with 8 pins of connectors located on the center of the back panel. There are 3 pins for two alarm inputs and 5 pins are for alarm output. The I/O connectors are physical interface to sense and/or activate alarm signals to a variety of external sensors or alarms. Please refer to the Appendix B in this manual for more information.

CF Card Socket

The CF card socket is located on the right side of the back panel of the Network Camera. User can plug a CF memory card into this socket to store the alarm or scheduled images. This is very useful to keep the evidence of alarms or scheduled images for reference.

Factory Default Reset

This button is hidden in the pinhole above the Alarm I/O connector. Please refer to the Appendix A in this manual for more information.

Microphone

The Network Camera's has built-in an internal microphone. This microphone is also hidden in the pinhole above the Alarm I/O connector.

Status and 10/100M Ethernet LEDs

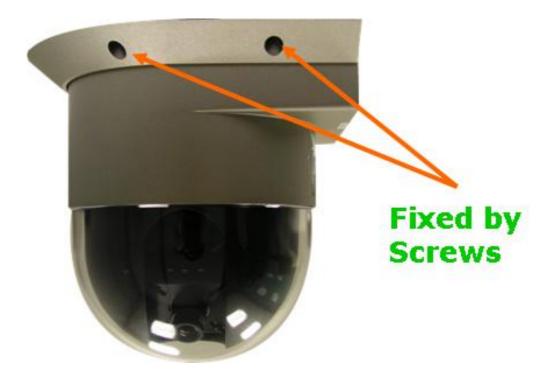
LED stands for Light-Emitting Diode. The Status and Ethernet LEDs are located on the right side of the back panel of the Network Camera. The Status LED will turn orange while system is booting up successfully.

Ethernet LED is used to indicate the status of Network connection. While not any connection to the Network Camera, the LED will be off and flash orange while some one access this Network Camera.

Hardware Installation

1. Fix the Network Camera to Ceiling

Use 4 screws to fix the Network Camera onto the ceiling as below. You can also put the Network Camera on the table directly.



2. Plug an Ethernet cable into Network Camera

Connect an Ethernet cable to the LAN socket located on the Network Camera's back panel and attach it to the network.



3. Connect the external power supply to Network Camera

Connect the external power supply to the DC power connector attached on the extension cable from the Network Camera. Note: Use the power adapter, 12VDC, included in the package and connect the other end to wall outlet for AC power.



Once you have installed the Network Camera well, the status LED will turn orange. It means the system is booting up successfully. Furthermore, if you have a proper network connection, and access to the Network Camera, the 10/100M LAN LED will flash orange

Logging in to Homepage

Before Operation

Install the IP Address of Network Camera

When you installed your Network camera on your LAN environment, you may execute IPFINDER.EXE to discover Network camera's IP address.

IPCam Finder program (IPFINDER.EXE) is used to scan the Installed Network Camera, setting the Network Camera Name, IP address settings and so on.

YT_IP_Ivan	Name		P	Ϋ́T	
Video_Server1	IP	192	168	0	11
/ideo_Server	Netmask	255	255	255	0
na per nonde anna arrent arrent de proposition de la calencia de la compete de la compete de la compete de la c	Gateway	192	168	0	254
	HTTP Port1				
	HTTP Port2				
	MAC	00:	30:F0	:03:AA	: 92
					~
Search Subr	nit		_	Exit	
. Press Submit to update parameters		meras			

Using your mouse to select any one of the Network Cameras within your LAN environment, you can find out its IP address and other IP parameters as follows:

- Edit the Name of this Network Camera. Note that use "_" or "-" to replace "space" character to separate the name string. For example, "PT_IP" or "PT-IP" will be right. However "PT IP" will not work here.
- 2. Might be needed to update the IP address of this Network Camera. (Power recycling might be necessary)
- 3. Might be needed to update the Gateway Address. (Power recycling might be necessary)
- 4. Might be needed to update the Network Mask (255.255.255.0). (Power recycling might be necessary)
- 5. Might be needed to modify the port number 1 of HTTP access. (Power recycling might be necessary)
- 6. Might be needed to modify the port number 2 of HTTP access. (Power recycling might be necessary)
- 7. 'Submit' it.

Click "submit", the IP information of this Network Camera will be updated after seconds

Install the Network Camera with an ADSL Router

If the Network Camera was installed on the LAN with an ADSL router, then the Network Camera can get a dynamic IP address from the DHCP server. However, if the Network Camera wants to be access from the WAN, its IP address needs to be setup as fixed IP, also the Virtual Server function of ADSL router needs to be setup as follows:

- 1. Setup the Network Camera as Fixed IP, such as 192.168.0.49.
- 2. Enter the administrator page of ADSL router. (Use zonet ASDL router as an example).
- 3. Enter the Virtual Server Page.
 - a. Setup the mapping of HTTP Port (80) to 192.168.0.49.
 - b. Restart the ADSL router.

Then the Network Camera can be access from WAN by the ADSL WAN IP Address.

File Edit View Favorites Tools Help					
💠 Back 🔹 🤿 🗸 🙆 🚮	🔍 Search 🛛 👔 🛛	Favorites 🧭History 🛛 🖏 🎒 🔯	• 🖻		
Address 🛃 http://192.168.0.1/			· ?		
Links 🙋 Customize Links 🙋 Free I	Hotmail 🔌 Win	dows Free AOL & Unlimited Internet	• • • RealPlayer		
	Bro	adband Route	er (ZSR-0104		
		Virtual Serve	<u>r</u>		
		⊙Disable ⊙I	Enable		
Device Info	ID	Service Port	Server IP in LAN		
Administrator	1	FTP(21)	192.168.0 . ²¹²		
EZ Setup	2	TELNET(23)	192.168.0.		
WAN	3	SMTP(25)	192.168.0.		
Advanced	4	DNS(53)	192.168.0.		
Access Control	5	HTTP(80)	192.168.0. ⁴⁹		
Service Time	6	POP3(110)	192.168.0.		
URL Blocking Virtual Server	7	NetMeeting(1720)	192.168.0.		
DMZ	8		192.168.0.		
Logout	9		192.168.0.		
	10		192.168.0.		
	5 24				

First time uses the Network Camera

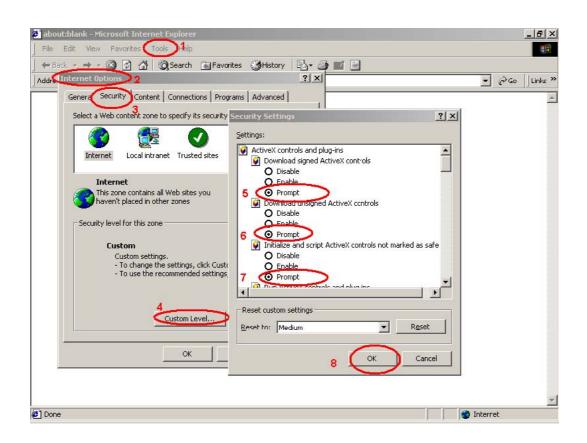
The Network Camera web page communicates with the Network Camera using an ActiveX control. The ActiveX control must be downloaded from the Network Camera and installed on your PC. Your Internet Explorer security settings must allow for the web page to work correctly. To use the Network Camera, user must setup his IE browser as follows:

From your IE browse → "Tools" → "Internet Options..." → "Security" → "Custom Level...", please setup your "Settings" as follow.

Set the first 3 items

- Download the signed ActiveX controls
- Download the unsigned ActiveX controls
- Initialize and script the ActiveX controls not masked as safe

To Prompt



By now, you have finished your entire PC configuration for Network Camera.

Access the Network Camera from the

Internet Explorer for the first time

1. Start the web browser on the computer and type the IP address of the Network Camera you want to monitor as below:



The Login Window of the Network Camera is displayed:

Connect to 192.	168.0.195	? 🗙
		A.K.
Camera Server		
<u>U</u> ser name:	2	~
<u>P</u> assword:		1
	Remember my pass	word
_	ОК	Cancel

2. Type in your login name and password under "USERNAME" and "PASSWORD" textbox.

For the first time use (default value), input the

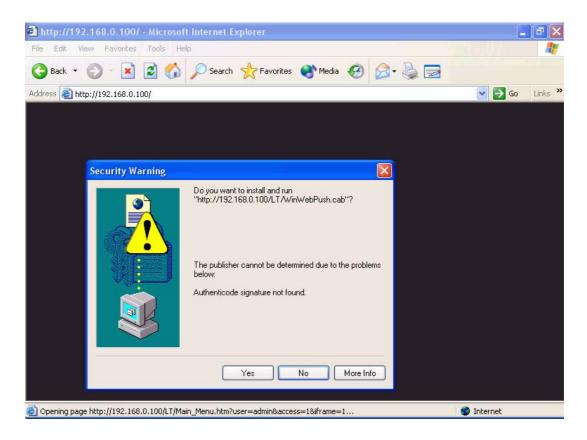
User Name: admin

Password:

That's, type in "**admin**" on the "USERNAME" as a default name and leave PASSWORD textbox blank. Click "OK" button to start the main menu.

Now, you login to the Network Camera as a full-authorized administrator. You can enter "Setting" to change the password and setup "Administrator" or "User" authority. Please refer to "Setting" \rightarrow "User" and "IP Filter".

3. The IE Web Page will display the "Security Warning" window, select "Yes" to install and run the ActiveX control into your PC.



4. Display the image. After the ActiveX control was installed and ran, the first image will be displayed.



Logging in as an ordinary User

For ordinary user usage, "Setting", "Trigger", and "Capture" will be not available. On the right side of the screen, there are lots of controls and function buttons. If "Remote camera control" is turned off by the administrator, then those control and function buttons will not be available as well.

For the rest of this user guide, it is assumed that the "Remote camera control" will be turned on for normal operation.

Logging in as an Administrator

If you log in the Network Camera as the Administrator, you can perform all the settings provided within the software. The Administrator may be logged in at any time, regardless of the number of the users being accessed.

Operating the Network Camera

Start-up screen will be as follow no matter an ordinary users or an administrator.



Advanced Functions

Control Panel

Viewing Area: Images from the Network Camera

Control Panel

Control Panel Area: Network Camera Manipulation and image quality control



Item	Button	Meaning
1	Camera direction	Control camera up/down/left/right and home position
2	Camera speed	Adjust camera speed up / down
3	Preset / Recall mode	Preset: Set up camera to fixed locations before operation Recall: Drive camera position to preset location

		During preset mode, click the number and a dialogue box for the inquiry of location name input will appear.
4	Preset / Recall camera locations	Preset or Recall camera 1~16 location(s) Ex. If you press 5, then the camera will move to preset location 5.
5	Camera tour on / off	Turn on or off the camera tour. Camera tour is comprised by series of preset locations.
6	Auto pan on / off	Turn on or off the auto pan of camera. While auto pan is on, the camera will swing the camera from leftmost to rightmost tour and then from rightmost to leftmost cyclically.
7	Video resolution	Adjust Video resolution Network Camera provides 4 resolutions: 640x480, 352x288, 320x240, 176x144 For NTSC camera: 320x240 is suitable For PAL camera: 352x288 and 176x144 are suitable However, all resolution are available for NTSC and PAL camera
8	Video brightness adjustment	Adjust video brightness of camera
9	Frame rate adjustment	Adjust video frame rate via scrolling the listed numbers: 1, 5, 10, 15, 20, 25, 30
10	Audio On/Off	Turn on/off audio output function. Note: This function is not available in Network Camera.
11	Video quality adjustment	Adjust video quality. Clarity: Video is better but frame rate may be slower Fluency: Video is not as good as Clarity but frame rate may be higher Default: System default value

Advanced Function Area

Advanced function area: only available for administrator. It has contained three categories.

Setting	System Configuration
Trigger	Send out current message or setup activities
Capture	Capture current screen and save to HDD or other media

Setting menu consists of the Basic menu and the Application menu. The Basic menu is used for basic settings of the Network Camera, and the Application menu is used for setting various applications according to individual. Click on each menu name to display its setting page.

Basic Setting

For the setting, you will see there are divided into two categories – Basic Setting and Application.

Basic S	Setting	
Symbol	Item	Action
	System	Define Frame Rate, Turn on/off "Remote camera control", and view system log file.
\bigcirc	Camera	Adjust camera parameters and set camera tour
Ð	Network	Configure Network setting such as DHCP On/Off, DDNS and PPPoE
	User	Setup user name, password and login privilege
9	IP Filter	Setup legal IP address of user login (This function should be used with function "User" respectively)

System: Define Frame Rate and Turn on/off "Remote camera control"

System ID	rmC9GmvgCaM
Camera Name	PT
Default frame rate	1 💌
Remote camera control	오 ON 🔍 OFF
Log	View

System ID:

It's a unique number for each Network Camera for identification.

Camera Name:

You can enter the name of this unit here. It's very useful to identify the specific device from multiple units. Note that use "_" or "-" to replace "space" character to separate the name string. For example, "PT_IP" or "PT-IP" will be ok and "PT IP" will not work here.

Default frame rate:

You can set up frame rate here or via right-side control panel.

For example, set the frame rate to 5 FPS, then the image will be updated for 5 frames per second, the time interval can be checked by the time displayed on the image.

Remote camera control:

Turn on "Remote camera control": users will be able to use right-side control panel vice versa.

Log:

User can check the log information of the Network Camera, including the *Main Info*, *Appended Info*, *Operator IP*, *Operator MAC*, and *Time*.

Select the "View" button to check the log file.

System Log				
Date		IP	MAC	Event
2/18/2005 11:40	>			System Boot
2/18/2005 11:40	>	127.0.0.1	[]	New client
2/18/2005 11:43	>	192.168.0.119	[00:11:2F:A4:17:30]	New client
2/18/2005 11:43	>	192.168.0.119	[00:11:2F:A4:17:30]	Set Server Time
2/18/2005 11:46	>	192.168.0.69	[00:02:3F:BB:F6:E0]	New client
2/18/2005 11:48	>	192.168.0.119	[00:11:2F:A4:17:30]	Unknown log info (35)
2/18/2005 11:50	>	192.168.0.119	[00:11:2F:A4:17:30]	Unknown log info (35)
2/18/2005 11:51	>	192.168.0.119	[00:11:2F:A4:17:30]	Unknown log info (35)
2/18/2005 12:10	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 12:10	>	192.168.0.119	[00:11:2F:A4:17:30]	Unknown log info (35)
2/18/2005 12:10	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:1	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:1	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:1	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:1	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:1	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:2	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:2	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:2	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:2	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:2	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:2	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:6	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)
2/18/2005 13:6	>	192.168.0.69	[00:02:3F:BB:F6:E0]	Unknown log info (35)



Camera PT	🗖 Reverse	Pan 📕 Reverse Tilt	
Image Size	320×240 💌		
Image Quality	Default 💌		
Image	🖲 Color	Monochrome	
Mirror	🖲 Normal	Reversed	
Focus Mode			
White Balance Mode			
Exposure Mode	Fare	Y	
Saturation	127	(0~255)	
Sharpness	127	(0~255)	
Contrast	127	(0~255)	
Hue	127	(0~255)	
Audio	🖱 Adpom	© Pcm	
Camera Tour	ON	OFF SET TOUR	2
Reset to Default	🛡 YES	© NO	
		SAVE CANCEL	

Camera PT:

User can control the direction of Pan and Tilt as wish. Reverse Pan: Check this option to reverse pan direction. Reverse Tilt: Check this option to reverse tilt direction.

Image Size:

Network Camera provides 4 resolutions:

- 176x144
- 320x240
- 352x288
- 640x480

Image Quality:

The Network Camera provide 3 quality setting,

Clarity: Video is better but frame rate may be slower Fluency: Video is not as good as Clarity but frame rate may be higher

Default: System default value.

Note: The value on the list box display the current setting of the current image, when you make a new selection, the value on the list box will be changed until you save the new setting.

Image, Mirror, Focus Mode, White Balance Mode, Exposure Mode:

These functions are available for PTZ Network Camera and Video Server only. It's not functional for this model.

Saturation, Sharpness, Contrast, Hue:

To control the camera parameters, key in these values respectively.

Audio:

PCM and ADPCM could be selected as compression method of audio. Normally, ADPCM could generate smaller size of audio data rate.

Camera Tour:

Tour name	A		
Dwelling time	4 (2 to 3600sec)		
Sequence	1 1 : 1 3 6 : 6	22:2	X
	5	6	
	7 9	■ 8 ■ 10	
	11 13	 ✓ 12 ✓ 14 	×
	15	16	
Enable	OA OB OC OD OE		
	SAVE	BACK	

Tour Name: The group name of the sequence of camera tour

Dwelling Time: The time period between every tour point.

Sequence: 16 points can be assigned. The tour point will also show the location name if you had entered the location name while preset the camera.

Enable: Which sequence group should be activated.

To use the camera tour function, user must preset some camera positions first. The maximum number of preset points is16.

In the Camera Tour page, choose the one tour name from A to E. Fill the dwelling time and tour sequence by preset points, and then save these setting. You can repeat above procedure to set more camera tours.

Now, you could choose one of the camera tours and click "SAVE" button to enable it.

Reset to Default:

Restore the values of these pages to factory default value.

Network: Configure Network setting such as DHCP On/Off, DDNS and PPPoE

DHCP	ON ON	OFF	
P address	192.168.0.183		
Subnet mask	255.255.255.0		
Default gateway	192.168.0.254		
MAC address	00:30:f0:03:ff:db		
Primary DNS	168.95.1.1		
Secondary DNS	0.0.0.0		
HTTP Port 1	80		
HTTP Port 2	0		
IP Finder	🛛 Enable 🔍	Disable	
DDNS	DDNS Sett	ng	
PPPoE	PPPoE Set	ting	

DHCP:

DHCP: Stands for Dynamic Host Configuration Protocol.

"DHCP ON" is default network setting of the Network Camera, when a Network Camera is joined into the LAN, it will issue the DHCP packets to request an IP address that is dynamically assigned by the DHCP server. If it can not get a DHCP address on a limited tries, the Network Camera will assigned a default IP address as the default IP address.

IP address, Subnet mask, Default gateway, Primary DNS, Secondary DNS:

If you turn DHCP OFF, then you need to enter those network parameters by yourself.

Note: User need to reboot the Network Camera to make this setting to take effect.

HTTP Port 1:

Users could assign the port number of http protocol, and the WAN users should follow the port number to login. If the http port1 is not assigned as 80, users have to add the port number in back of IP address. For example: <u>http://211.223.36.58:12000</u>. If the http port1 is assigned as 80, users do not have to add the port number in the back of IP address.

HTTP Port 2:

The function is the same as http port 1. It's the second choice of the port number.

Current implementation supports 2 HTTP port setting, the Http port 1 set to 80, the Http port 2 is not defined. The user can access the IPCam by

http://xx.xx.xx/, or

http://xx.xx.xx.xx:xxx/ to access the IPCam.

Suggest keeping the Http port 1 as 80 to make sure the IPCam can be accessed by the default HTTP port setting access on the LAN. <u>http://xx.xx.xx/</u>

If multiple IPCams are installed on the LAN, also required to be accessed from the WAN, then the Http port 2 can be changed as the virtual server port mapping to support multiple IPCams.

Note: If you just want to reboot system without change anything. You could click SAVE button directly, then system will reboot again without any setting changed.

IP Finder:

User can use IPCam Finder software program to find Network Cameras on the LAN. User also can set related parameters of Network Camera by IPCam Finder. However if administrator does not allow related parameters to be modified by IPCam Finder, then disable this option.

DDNS:

DDNS: Stands for Dynamic Domain Name Server

The Network Camera supports DDNS. DDNS allows the Network Camera to use an easier way to remember naming format rather than an IP address. The name of the domain is like the name of a person, and the IP address is like his phone number. On the Internet we have IP numbers for each host (computer, server, router, and so on),

and we replace these IP numbers to easy remember names, which are organized into the domain name. As to ADSL environment, most of the users will use dynamic IP addresses. If users want to set up a web or a FTP server, then the Dynamic Domain Name Server is necessary. For more DDNS configuration, please consult your local dealer.

Your Internet Service Provider (ISP) provides you at least one IP address which you use to connect to the Internet. The address you get may be static, meaning it never changes, or dynamic, meaning it's likely to change periodically. Just how often it changes, depends on your ISP. A dynamic IP address complicates remote access since you may not know what your current WAN IP address is when you want to access your network over the Internet. The solution to the dynamic IP address problem comes in the form of a dynamic DNS service.

The Internet uses DNS servers to lookup domain names and translates them into IP addresses. Domain names, such as www.veo.com, are just easy to remember aliases for IP addresses. A dynamic DNS service is unique because it provides a means of updating your IP address so that your listing will remain current when your IP address changes. There are several excellent DDNS services available on the Internet and best of all they're free to use. Two such services you can use are www.no-ip.com and www.DynDNS.org. You'll need to register with the service and set up the domain name of your choice to begin using it. Please refer to the home page of the service for detailed instructions.

A DDNS service works by uploading your WAN IP address to its servers periodically. Your gateway-router may support DDNS directly, in which case you can enter your DDNS account information into your router and it will update the DDNS servers automatically when your IP address changes. Please consult your router's documentation for more information. If your router does not support DDNS, you can run a small client utility on any PC on your network which will perform the updating. The client utility is usually provided for free by the service.

Enable DDNS	ON OFF
Username	
Password	
Domain Name	
HTTP Proxy	
Proxy Username	
Proxy Password	

PPPoE:

PPPoE: Stands for Point to Point Protocol over Ethernet

A standard builds on Ethernet and Point-to-Point network protocol. It allows a local PC with xDSL or cable connects with broadband network. Also this local PC gets a dynamic IP address. For more PPPoE and Internet configuration, please consult your local dealer or ISP.

Dial On Power Up	
User	
Password	
Send mail after dialed.	
Mail server	
Username	
Password	Check Password
Sender email	
Receiver email	
Subject	IP Camera PPP Dialed!

The Network Camera can directly connect to the ADSL, however, it should be setup on LAN environment to setup the PPPoE information, and then connect to the ADSL modem. Power on again, then the Network Camera will dial on to the ISP connect to the WAN through the ADSL modem.

The procedures are

- Connect to the LAN by DHCP or Fixed IP
- Access the Network Camera, enter Setting \rightarrow Network.
- Check the radio button of "PPPoE Setting".
- If the ADSL Modem and Network Camera were connected on a hub, after the Network Camera information were inputted, and then you can press "Dial" to do

the PPPoE dial.

- Input the "User" and "Password" fields by the account and password provided by the ISP.
- If the check box of "Send Mail after dialed" was checked, then the "MailServer" and "User on the MailServer" field need to be filled.
- If the mail server needs authentication, then the check box of "Password" needs to be checked, and password information need to inputted.
- Also the "Sender email", "Receiver email" needs to be inputted.
- The "Subject" field can be modified too.
- Select "Save" to save the setting.

If the PPPoE option "Send mail after dialed", then when PPPoE dialed up to ISP, a mail that contains the Dialup IP Address/ Netmask/ Gateway address/ DNS Server address will be mailed to preset e-Mail address.

🐱 Ip Camera PPP Dialed! - Merrage (Plain Text)	
Elle Edit View Insert Figmat Iools Actions Help	
Regerity De Repty to Al & Forgard 🗃 🐘 🔻 📑 🗙 🔸 • • • 🔬 🕲 .	
From: jasonin@ins1.hinet.net To: winbond_pc30@iso-net.net.tw; PC30.3LLin Cc: Subject: Ip Canvera.PSP Dialedi	Sent: 2003/1/1 12:02
P: 61 230 171.5 Netmasik: 255.0.0.0 Gataway; 61 230 166 254 DNS Server 0: 168 951.1	6

User: Setup user name, password and login privilege

🔲 Disable Authentic:	ation		
User ID	Username	Password	Access right
Administrator	admin		
User 1	guest	*****	User
User 2			Administator 💌
User 3			Administator
User 4		а 	Administator 💌
User 5			Administator 💌
User 6			Administator 💌
User 7			Administator
User 8			Administator 💌
User 9			Administator 💌
User 10			Administator 💌

Disable Authentication: If user checks this option, Network Camera or Video Server will not check username and password any more while user log into the system.

User only can input or modify the password of "Administrator". The username of "Administrator" is fixed as "admin"

You can set up to 10 different usernames and passwords. Although there are 10 sets only, you may have one group of people use one username and password to login. Every one set of username and password can be acted as an Administrator or just a normal user.

User" respectively).

You can enter 10 different user's IP address which are allowing enter or disregarding by the Network Camera.

You should configure "User" before "IP Filter". Each "User" username and password matches with one "IP Filter" user.

Allow 🔽		
IP From		
	То	Policy
		×
		*
		~
[Y
		*
		*

<u>Function Notification</u>

The page of user setting is very closely related to the IP filter settings. While the administrators are setting these two pages, they should notice that login authorities are not only based on the login names but also the range of IP addresses. Administrators could reject login users according to both login names and IP addresses. We setup several examples to explain the logical relations between login names and the IP policy. The users login in the name of "admin" have the most power. System will always accept no matter how IP filter setting was set.

-1-.

(User page) Login name 1= 12345, Password=12345, Access Authority=whatever (IP filter page) Default Policy=Allow, login name1 comes from 192.168.0.A to B=Allow That is, when the remote users login in the name of 12345 and come from the IP addresses 192.168.0.A to 192.168.0.B, login will be successful. If these users did not come from the IP addresses A to B, login access will be rejected.

-2-.

(User page) Login name 1= 12345, Password=12345, Access Authority=whatever (IP filter page) Default Policy=Allow, login name1 comes from 192.168.0.A to B=Deny That is, when the remote users login in the name of 12345 and come from the IP addresses 192.168.0.A to 192.168.0.B, login will be denied. If these users did not come from the IP addresses A to B, login access will be successful.

-3-.

(User page) Login name 1= 12345, Password=12345, Access Authority=whatever (IP filter page) Default Policy=Deny, login name1 comes from 192.168.0.A to B=Allow That is, when the remote users login in the name of 12345 and come from the IP addresses 192.168.0.A to 192.168.0.B, login will be successful. If these users did not come from the IP addresses A to B, login access will be rejected.

-4-.

(User page) Login name 1= 12345, Password=12345, Access Authority=whatever (IP filter page) Default Policy=Allow, login name1 comes from 192.168.0.A to B=Allow That is, login of all the login names will be rejected except the login name "admin".

Application Setting

Applica	tion	
Symbol	Item	Action
	FTP Client	Setup the Network Camera as a client site and configure Server site in order to upload images to server
	SMTP	Setup Mail configuration
0	Image Memory	Setup CF memory card setting or view the pictures stored in CF memory card (Note: for CF memory card enabled version only)
3	Alarm 1	Setup Alarm Output 1 action via manual or event
3	Alarm 2	Setup Alarm Output 2 action via manual or event
	Schedule	Set the schedule to enable motion detection
×	Motion Detection	Setup motion detection area and sensor sensitivity
3	Time Setting	Setup the Network Camera time configuration
	Popup	Setup event message while motion or sensors has been activated
9	Firmware Upgrade	Firmware upgrade
\odot	Factory Default	Recall the Network Camera factory default setting
(Reboot	Reboot this device

FTP Client: Setup the Network Camera as a client site and configure Server site in order to upload images to server

When alarm was enabled, user can send the captured images to the pre-set FTP server.

FTP server name				
User name				
Password				
Remote path				
lmage file name				
Suffix	None	오 Date / Time	Sequence number	
Sequence No. clear	🛡 Yes	🗢 No		
	🔳 Ma	otion Detection		
Mode	🔍 🔳 Se	ensor1	Periodical sending	OFF
	📕 Se	ensor2		

Entering server name and your login username and password, you will be able to upload those previous captured image to the FTP server. You can also send data to the server according to different situation such as by event or by period.

FTP server name:

Type the FTP server name to upload still images, or the IP address of the FTP server.

User name:

Type the user name for the FTP server.

Password:

Type the password for the FTP server.

Remote path:

Type the path to the destination.

Image file name:

Type the basic file name you want to assign to the images when sending to the FTP server.

Suffix:

Select the suffix to add to the file name.

- None:

No suffix is added. The basic file name is assigned to the image to be sent to the FTP server.

- Date/Time:

The date/time suffix is added to the file name. The date/time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits), second (2 digits) and consecutive number (2 digits), thus 14-digit number is added to the file name.

- Sequence number:

A consecutive number is added to the basic file name. A number of up to 10 digits between 0000000000 to 4294967295 is added to the file name.

Sequence No. clear:

Reset the sequence number to 000000000.

Mode:

Send a captured image via three different situations – via event such as motion detected or sensor1/2 activated or send it periodically or off.



When alarm was enabled, user can setup the mail to send the captured images to the pre-set mail address.

		Setting	
SMTP server name			
Username			
Password	Check Password		l,
Sender's Mail Box			
Receiver's Mail Box			
Subject	IP Camera Warning!		
	Motion Detection	on	
Mode	🛡 📕 Sensor1	Periodical sending	OFF
	📕 Sensor2		
	Sensor2		

You may setup SMTP mail parameters for future event-message receiving such as motion detected or sensor activated.

SMTP server name:

Type the SMTP server name up to 64 characters, or the IP address of the SMTP server.

User name:

Type the user name for the SMTP server.

Password:

Type the password for the SMTP server.

Sender's e-mail address:

Type the sender's E-mail address.

Receiver's e-mail address:

Type the receiver's e-mail address. This address is used for reply mail. **Note**: you can key in multiple receiver's email address at the time.

Subject:

Type the subject/title of the E-mail up to 64 characters.

Mode:

Send a captured image via three different situations – via event such as motion detected or sensor1/2 activated or send it periodically or off.

Setup CF memory card setting or view the pictures stored in CF memory card

Note1: This function is for CF memory card enabled version only. If this option is not listed on setting menu, it means this Network Camera does not support CF memory card function.

Note2: Currently, only SAM-DISK®'s CF memory card is approved for this device. We could not guarantee compatible issue for other CF memory card.

User can store the picture into CF memory card locally by this function. It's very useful to keep image as evidence even though without remote surveillance and remote recording.

mage Memory	오 Enable	🔍 Disable		
File Name	🖸 Date / Time	🗢 Sequence n	number	
Overwrite	🔍 On	OFF OFF		
Capacity Warning	🔍 Send Mail	OFF OFF		
	Motion	Detection		
Mode	🖸 📕 Sensor	1 🔍	Periodical sending	OFF
	🔲 Sensor	2		
Free Space	453820416bytes			
Memory Content	View			
	S	AVE CANCE		

Image Memory:

Choose enable button will activate the CF memory card recording function or choose disable button will stop this function.

Note: Because this device does not support plug and play function yet. Therefore, while you want to plug a CF memory card into slot, please make sure power off the device first,

then plug this CF memory card securely. When you want to remove this CF memory card from device, make sure click the disable button first, power off this device, and then remove this CF memory card. Otherwise, this CF memory card may be damaged and all image files are lost.

File Name:

The recording filename can be based on either date/time or sequence number.

Overwrite:

While the attached CF memory card is full, either stop recording or overwrite the oldest file.

Capacity Warning:

While the attached CF memory card is full, this device can send a email for warning.

Mode:

Send a captured image via three different situations – via event such as motion detected or sensor1/2 activated or send it periodically or off.

Free Space:

Show the available space of the attached CF memory card.

Memory Content:

This function can view or delete the image files stored in the CF memory card.

Date	Time	File	Image
20050613	15_35	▲ 15_38_6.jpg	
20050602	15_31	15_38_5.jpg	
20050601	15_28	15_38_42.jpg	
20050531	15_27	15_38_32.jpg	
	14_56	15_38_29.jpg	4 C - 272
	14_53	15_38_21.jpg	interest
	14_48	15_38_17.jpg	
	14_46	15_37_60.jpg	
	14_43	15_37_59.jpg	
	14_40	15_37_57.jpg	
	14_37	15_37_56.jpg	
	14_33	15_37_55.jpg	
	14_30	15_37_53.jpg	RI AND
	14_28	15_37_50.jpg	ALL AND AND A
	14_25	15_37_48.jpg	
	14_23	15_37_43.jpg	
	14_20	15_37_41.jpg	
	14_17	15_37_13.jpg	
	14_13	15_37_0.jpg	
100	14_10	▼ 15_36_8.jpg	X
		BOWNI AND D	
VIEW DELETE	VIEW DELETE	DOWNLOAD D	ELETE
		BACK CANCEL	



	Al	arm out 1
Duration	0 seconds	s (0~86400, 0 means static)
		Motion Detection
Mode	🖸 Manual	🔎 🔳 Sensor 1
		📕 Sensor 2
	SA	/E CANCEL

Duration:

Set up the alarm duration. "0" means the alarm working always.

Mode:

You can issue an alarm output action by manual or event such as motion detected or sensor1/2 activated.



	Alarm out 2	
Duration	0. seconds (0~86400, 0 means static)	
	Motion Detection	
Mode	👁 Manual 🛛 🔎 🔳 Sensor 1	
	🔳 Sensor 2	

Duration:

Set up the alarm duration. "0" means the alarm working always.

Mode:

You can issue an alarm output action by manual or event such as motion detected or sensor1/2 activated.



Schedule No.	Schedule Date.	Start Time.	End Time.	Event.
No. 0	🗖 Mon 🗖 Tue 🗖 Wed 🗖 Thu 🗖 Fri 🗖 Sat 🗖 Sun	0 💌 : 0 💌	0 🕶 : 0 💌	
No. 1	🗖 Mon 🗖 Tue 🗖 Wed 🗖 Thu 🗖 Fri 🗖 Sat 🗖 Sun	0 🔹 0 💌	0 🔻 : 0 💌	
No. 2	🗖 Mon 🗖 Tue 🗖 Wed 🗖 Thu 🗖 Fri 🗖 Sat 🗖 Sun	0 🔹 0 💌	0 🕶 : 0 💌	
No. 3	🗖 Mon 🗖 Tue 🗖 Wed 🗖 Thu 🗖 Fri 🗖 Sat 🗖 Sun	0 🔹 : 0 💌		
No. 4	🗖 Mon 🗖 Tue 🗖 Wed 🗖 Thu 🗖 Fri 🗖 Sat 🗖 Sun	0 🔹 0 💌	0 💌 : 0 💌	
No. 5	🗖 Mon 📕 Tue 📕 Wed 📕 Thu 📕 Fri 📕 Sat 📕 Sun	0 - 0 -		

The schedule setting is used to set the time schedule for events. The event may be "Star Motion Detection" or others. There are 6 schedules to be programmable.

Motion Detection: Setup motion detection area and sensor sensitivity

The motion detection is implemented by a patented software algorithm, it runs on the Network Camera, due to a larger processing power of motion detection, the overall performance of Network Camera will be degraded; the frame rate may be reduced.



You can enable or disable motion detection. If your enable motion detection, you can also setup detection sensitivity from one of three sensitivity levels.

By dragging mouse position on the image, you can see a red-box area which is the motion detection area according to your sensitivity.

Time Setting: Setup the Network Camera time configuration

You can setup the Network Camera time or make it synchronized with PC or remote server. Also, you may select your time zone in order to synchronize time locally.

IP Carn Time	Saturday, February 01, 2003 8:00:0
PC Time	Thursday, February 17, 2005 1:49:+
Set Time	📀 Synchronize with PC's time 🌑 User Input 🕥 NTP
Date (yy/mm/dd)	2005/2/17
Time (hh:mm:ss)	13:49:46
Time Zone	(GMT+08-00) Taipei

Synchronize the time with PC's time:

This is the default time adjust mode, the check box of "Synchronize with PC's time" would be checked by default.

Press "SAVE" button to do the time synchronization with PC time.

After the "SAVE" button was set, the Network Camera time will be synchronized as PC's time. From the setting, the Server's time is the same as PC's time.

Change the time manually:

The following steps can change the time manually

- 1. Select the check box of "User Input"
- 2. Change the date according to the "yyyy/mm/dd" format.
- 3. Change the time according to the *"hh:mm:ss"* by 24 hours format.
- 4. Select the new time zone setting.
- 5. Select the "Adjust" button to adjust the time.

The time was changed by checking the "Server: " time field.

Get Time from a NTP server: Select "*NTP*" Button

Key in the NTP server's IP address.

Press "SAVE" to activate it.

After the Network Camera gets the time from NTP server, it will update the Network Camera's time field.

Popup: Setup event message while motion or sensors has been activated

When any one of alarms enabled, and one of them detected, then a message window will be displayed on the screen.

Pop-up text		
Alarm pop-up text		
Display mode	Administrator	
Sensor 1	ON OFF	
Sensor 2	ON OFF	
Motion detection	ON OFF	

You can have output message in case of events activated such as sensors or motion detection to warn user.



The Network Camera supports firmware upgrades (the software that controls the operation in the Network Camera). We would supply the latest firmware version for upgrade. Please contact your dealer for the latest version.

Download the latest firmware file from our website. Unzip this firmware file to binary file and store it into your PC. The file name should be **RZ.BIN** or similar for the Network Camera. Then follow the steps as bellows carefully:

- 1. Close all other application programs which are not necessary for firmware update.
- 2. Disable Motion Detection function.
- 3. Disable Camera Tour function.
- 4. Set the video resolution to 176 x 144 or smaller.
- 5. Set the frame rate to 1 fps.
- 6. Select "Firmware update"
- 7. The Firmware Upgrade menu will appear:

Firm	ware Up;	grade		
Firmwar	e Version	2.0.3		
Select software:			Browse.	
	Upload			

8. Select the Firmware binary file. (It must be make sure that the Firmware only apply to

Network Camera, once update, it will be burned into FLASH ROM of system.)

9. Once the firmware file was selected, select "Upload".

Firmware Upgrade
It is strongly recommended to stop any unnecessary jobs while updating firmware. Please be patient and the updating process may take a long time.
Click here to begin to update firmware.
Click here to ignore and delete the file uploaded just now.

10. Press the "here" button to begin to upgrade firmware.

Firmware Upgrade
It is strongly recommended to stop any unnecessary jobs while updating firmware. Please be patient and the updating process may take a long time.
Click here to begin to update firmware.
Click here to ignore and delete the file uploaded just now.
Microsoft Internet Explorer Vipdate firmware in flash memory? OK

11. Press the *"OK"* button to continue.

Firmware Upgrade
It is strongly recommended to stop any unnecessary jobs while updating firmware. Please be patient and the updating process may take a long time.
Click here to begin to update firmware.
Click here to ignore and delete the file uploaded just now.
Writing Progress: 78%

The upgrade progress status information will be displayed on the screen.

Warning: The download firmware procedure can not be interrupted. If the power and/or network connection are broken during the download procedure, it might possibly cause serious damage to the Network Camera. Suggest that do not upgrade firmware via Wireless LAN due to high error rate possibly.

Please be aware that you should not turn off the power during updating the firmware and wait for finish message.

Once the upgrading process completed, the Network Camera will reboot the system automatically.

Note: please wait for 20 seconds, and then you can connect to Network Camera again.

Factory Default: Recall the Network Camera factory default setting

Microsoft Internet Explorer				
?	All configuration will be set to factory default, and system will reboot immediately. Continue?			
	OK Cancel			

The *"Factory Default"* button will restore to the factory default configuration, all information changed and saved on the flash will be lost, and restored to the factory default setting.

You will be prompt before restore to factory default setting.

Select "OK" to continue, or "Cancel" to abort it.

Reboot: Reboot the Network Camera by hardware reset



The *"Reboot"* button will reboot the Network Camera. It's useful while the Network Camera got problem.

You will be prompt before restore to factory default setting.

Select "OK" to continue, or "Cancel" to abort it.

Trigger

You can send an image or output a trigger to control the alarm output, using Trigger section on the main page.



Action	Meaning
FTP	Upload a captured image to server
Mail	Mail captured image to specific mail address
Alarm 1	Enable Alarm output 1
Alarm 2	Enable Alarm output 2
Clear Alarm 1	Clear both alarm output 1 status
Clear Alarm 2	Clear both alarm output 2 status

Noted: This function is available for logging-in as an administrator only.

Capture

You can capture current image and save it to storage media. The image is saved in the JPEG format.

Save Picture		? ×
Save jn:	🐼 My Pictures 💽 🔶 🖆 📰 -	
History Desktop My Documents My Computer	f CamImg025201.jpg f Sample.jpg	
My Network P		ave

Noted: This function is available for logging-in as an administrator only.

RightMouseButton of ActiveX Control

On the view of video, the plug-in ActiveX control support a lot of functions by clicking the right mouse button. This feature only supports on the ActiveX control within Microsfoft® Internet Explorer.

On the ActiveX control, right click the RightMouseButton, then a menu pop-up. This menu provides feature that are unique to the ActiveX control. These functions include

- "View",
- "Splits",
- "Rotate",
- "Quality",
- "Resolution",
- "Image Recording...",
- "Save Current Picture As ..."

...



View Menu

"Resizable"

Make the image is resizable, but "Actual size disable", the "Splits" is supported on this mode.

"Actual size "

Make the image show as the actual size, the "Splits" function does not work on this mode.

"StatusBar"

A status bar display on the button of the image.

"View"

It makes the image resizable.



After the "Resizable" was selected, the border of the image changed to resizable border.



After the "*Actual size*" was selected, the image will displayed as the actual size, in this example, the image displays as a 640 x 480 pixels.



After the "Statusbar" was selected, a status bar will be displayed on the bottom of the image. It displays

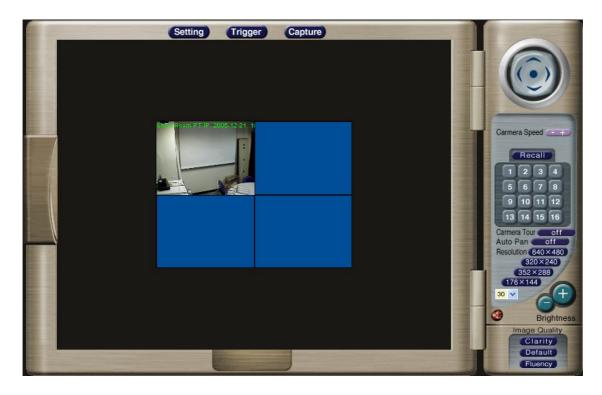
- Status Open/Close camera status
- Resolution
 704x576, 640x480, 320x240, 352x288, 176x144, 160x120 (PAL)
 640x480, 320x240, 352x288, 176x144, 160x120 (NTSC)
- Quality Highest, High, Medium, Low, Lowest
- Split 1x1, 2x2, 3x3, 4x4
- Rotate
 - Normal: "Rotate 0", the defau state.
 - Rotate: "Rotate 180", rotate the image by 180 degree; used on the camera was up side down mounted.
 - Flip Vertical : Flip the image vertically.
 - Flip Horizontal : Flip the image horizontally.
- Frame Rate
- URL



"Split"

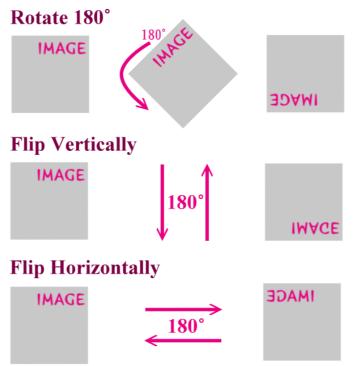


This function is used to support 4CH Video Server. Therefore, it's not so useful in Speed Dome Network Camera.



"Rotate"





After the "*Rotate 180*" was selected, the image will be overturned from 0 to the angle 180.



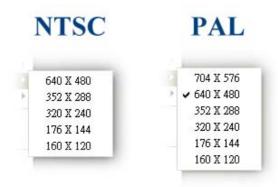
After the "Flip Vertical" was selected, the image will be overturned vertically.

After "Flip Horizontal" was selected, the image will be overturned horizontally.

"Resolution"

If Network Camera type is NTSC, it will have 5 choices of resolution: 640x480, 352x288, 320x240, 176x144, and 160x120. While users control the PAL type of the Network Camera, they could have 6 choices of resolution: 704x576, 640x480, 352x288, 320x240, 176x144, and 160x120.

The control method is the same as control panel's "Quality".



"Quality" Highest (The same as "Clarity" on control panel) High Medium (The same as "Default" on control panel) Low Lowest (The same as "Fluency" on control panel)

The control method is the same as control panel's "Quality".

"Image Recording...-> Save as JPEG"

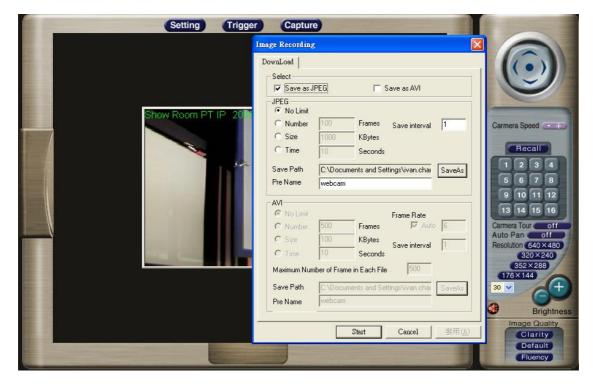
Select "Image Recording..."

The "Image Recording" pop-up window displays, select

"Save as JPEG"

Input the "Download Number" for the number of images desire to be saving, or "Download No Limit" to save the images continuous, until the "Stop Image Recording" is selected.

Select "SaveAs", the pop-up window to select the save path and file name prefix, select "Save" to continue.



Select "Start" to do the images download and save as JPEG files into the local PC.

During the download and save as JPEG files process, the yellow mark will be displayed on the right-down position to indicate the saving as JPEG files operation.



Before the "Download Number" of images is reached, or "Download No Limit", select "Stop Image Recording" to stop the image recording process.



After "Stop Image Recording", list the files, these files are named as file_name_prefixed_yyyy_mm_dd_hh_mm_ss_ms.jpg

es Command	States and the		- 🗆 X
	11:14 AM	13,546 WebCamPic_2004_7_8_11_14_25_609.jpg	
	11:14 AM	13,705 WebCamPic_2004_7_8_11_14_25_671.jpg	
	11:14 AM	13,550 WebCamPic_2004_7_8_11_14_25_859.jpg	
7/08/2004	11:14 AM	13,687 WebCamPic_2004_7_8_11_14_25_906.jpg	
7/08/2004	11:14 AM	13,701 WebCamPic_2004_7_8_11_14_26_109.jpg	
7/08/2004	11:14 AM	13.647 WebCamPic_2004_7_8_11_14_26_156.jpg	
	11:14 AM	13,647 WebCamPic_2004_7_8_11_14_26_343.jpg	
	11:14 AM	13,654 WebCamPic_2004_7_8_11_14_26_484.jpg	
	11:14 AM	13,631 WebCamPic_2004_7_8_11_14_26_578.jpg	
	11:14 AM	13,577 WebCamPic_2004_7_8_11_14_26_671.jpg	
7/08/2004	11:14 AM	13,561 WebCamPic_2004_7_8_11_14_26_750.jpg	
7/08/2004	11:14 AM	13,680 WebCamPic_2004_7_8_11_14_26_937.jpg	
7/08/2004	11:14 AM	13,655 WebCamPic_2004_7_8_11_14_27_0.jpg	
7/08/2004	11:14 AM	13,574 WebCamPic_2004_7_8_11_14_27_156.jpg	
7/08/2004	11:14 AM	13,671 WebCamPic_2004_7_8_11_14_27_265.jpg	
7/08/2004	11:14 AM	13,648 WebCamPic_2004_7_8_11_14_27_343.jpg	
7/08/2004	11:14 AM	13,684 WebCamPic_2004_7_8_11_14_27_515.jpg	
7/08/2004	11:14 AM	13,632 WebCamPic_2004_7_8_11_14_27_593.jpg	
7/08/2004	11:14 AM	13,626 WebCamPic_2004_7_8_11_14_27_671.jpg	
7/08/2004	11:14 AM	13,672 WebCamPic_2004_7_8_11_14_27_843.jpg	
7/08/2004	11:14 AM	13,622 WebCamPic_2004_7_8_11_14_27_921.jpg	
7/08/2004	11:14 AM	13,619 WebCamPic_2004_7_8_11_14_28_93.jpg	
7/08/2004	11:14 AM	13,632 WebCamPic_2004_7_8_11_14_28_171.jpg	
7/08/2004	11:14 AM	13,630 WebCamPic_2004_7_8_11_14_28_265.jpg	
7/08/2004	11:14 AM	13,615 WebCamPic_2004_7_8_11_14_28_328.jpg	
7/08/2004	11:14 AM	13,630 WebCamPic_2004_7_8_11_14_28_515.jpg	
7/08/2004	11:14 AM	13,611 WebCamPic_2004_7_8_11_14_28_562.jpg	
7/08/2004	11:14 AM	13,639 WebCamPic_2004_7_8_11_14_28_765.jpg	
7/08/2004	11:14 AM	13,599 WebCamPic_2004_7_8_11_14_28_843.jpg	
7/08/2004	11:14 AM	13.667 WebCamPic 2004 7 8 11 14 28 906.jpg	
7/08/2004	11:14 AM	13,616 WebCamPic_2004_7_8_11_14_29_93.jpg	
7/08/2004	11:14 AM	13,690 WebCamPic_2004_7_8_11_14_29_171.jpg	
	287 File(s)	3,904,537 bytes	
	2 Dir(s)	5,960,056,832 bytes free	

"Image Recording ... -> Save as AVI"

- 1. Select "Image Recording ... "
- 2. The "Image Recording" pop-up window displays, select
- 3. "Save as AVI"
- 4. Input the "Avi Frame" and "Max Jpeg Num" on each AVI file, until the "Stop Image Recording" is selected. "Avi Frame" is the frame rate setting of the recorded AVI file.
- 5. For each AVI file, the maximum saved images in each file are specified in *"Max Jpeg Num*", once the saves image on each AVI file are reached by this number, then a new AVI file will created to save the following images, until the *"Stop Image Recording*" is selected.
- 6. Select "SaveAs", the pop-up window to select the save path and file name prefix, select "Save" to continue.

Setting Trigger Capture	0
DownLoad Select Select JPEG No Limit Number 100 Frames Save interval Size 1000 KBytes Time 10 Seconds Save Path C:\Documents and Settings\ivan.cha SaveAs	Carmera Speed + Recall
Pre Name Webcam AVI Frame Rate Number 500 Size 100 KBytes Save interval Time 10 Seconds 500 Maximum Number of Frame in Each File 500 Save Path C:\Documents and Settings\ivan.chai Pre Name webcam	5 6 7 8 9 10 11 12 13 14 15 16 Carmera Tour off Auto Pan off Resolution 640 × 480 320 × 240 352 × 288 176 × 144 30 V +
Start Cancel 查用(点)	Brightness Image Quality Clarity Default Fluency

Select "Start" to start the AVI files recording.

During the AVI file recording, a red icon displays on right-down position of the image to indicate the AVI saving process.



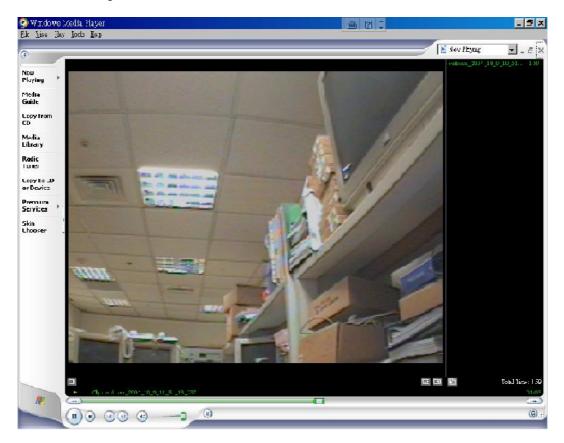
Press the "Stop Image Recording" to stop the save as AVI process.



After the "Stop Image Recording", list the file on the selected saved directory, the file were saved by the filename_prefix_date_time.avi.

	IR drive C has no label. ial Number is 0614-17FC	
Directory	of C:\temp\1	
17/08/2004 17/08/2004 17/08/2004 17/08/2004 17/08/2004 17/08/2004	11:13 AM <dir> 11:25 AM 810,906 webcam_2004_7_8_11_25_45_796.avi 11:27 AM 2,000,194 webcam_2004_7_8_11_27_57_781.avi 11:28 AM 636,068 webcam_2004_7_8_11_28_8_734.avi</dir>	
::\temp\1> <u></u>		

The AVI files can be display by the standard Windows Media Player, but it needs the DixectX 9.0 or higher version to be installed.



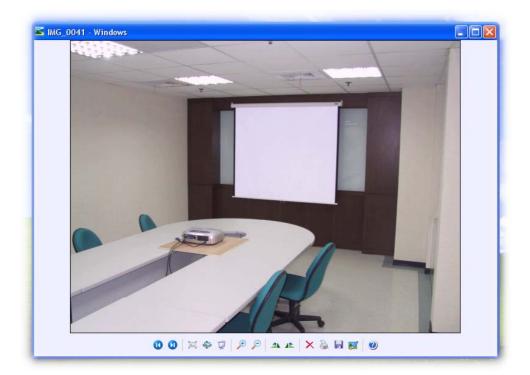
"Save Current Picture As ..."



Use the "Save Current Picture As ..." to save the current display image into the local PC.

Input the saved "File name", select "Save"

If you like to retrieve the saved image, select the file to display the saved image by using any one of graph editing tools.



Appendix A: Restore Factory Default Settings

There is a button hidden in the pinhole above the Alarm I/O connector. It is used to restore the factory default settings. Sometimes restarting the Network Camera will make the system back to a normal state. If the system still got problems after reset, user can restore the factory default settings and install it again.

Restore the Network Camera:

- 1. Power off the Network Camera.
- 2. Insert the paper clip or other tool and press and hold the button down continuously.
- 3. Power on the Network Camera again.
- 4. Wait at least 8 seconds and release the tool. Then the Network Camera has been restored to default settings.

5.



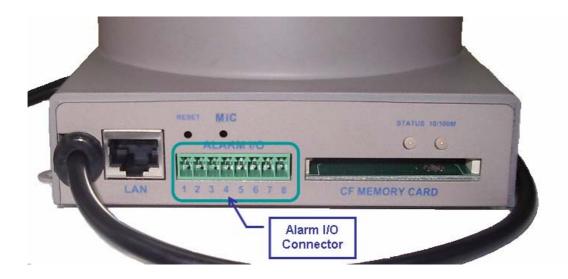
Note: Restoring the factory default setting will lose the all previous settings forever. User needs to run the IP Finder program to search the Network Camera and configure it to let the Network Camera work properly again.

Appendix B: Alarm I/O Connector

Interfacing to the External I/O

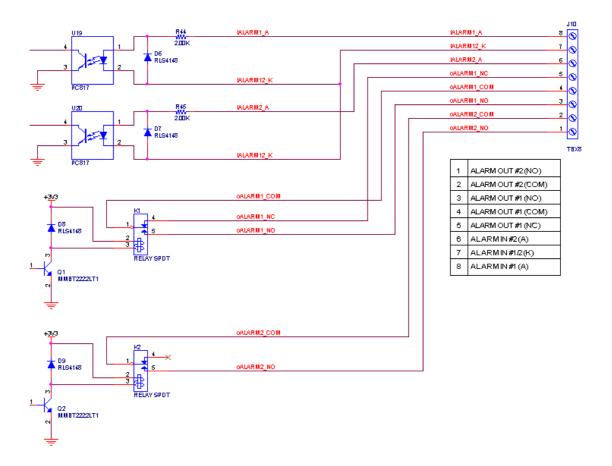
Some features of the Network Camera can be activated by an external sensor that senses physical changes in the area Network Camera is monitoring. These changes can include intrusion detection or certain physical change in the monitored area. For examples, the external sensor can be a door switch or an infrared motion detector. These devices are customer provided, and are available from dealers who carry surveillance and security products. Electrically, they must be able to provide a momentary contact closure.

This Network Camera provides a general I/O terminal block with two digital inputs and two outputs for device control. Pin 7 and 8 can be connected to an external sensor 1. Pin 7 and 6 can be connected to an external sensor 2. Both of the inputs, the voltage will be monitored from the initial state 'LOW'. The relay switch of pin 3, 4 and 5 can be used to turn on or off the external device 1. The relay switch of pin 1 and pin 2 can be used to turn on or off the external device 2. External Inputs/Outputs are working independently.



Pin	Function
1	Alarm Output #2 (NO)
2	Alarm Output #2 (COM). Max 24VDC, 1A
3	Alarm Output #1 (NO)
4	Alarm Output #1 (COM)
5	Alarm Output #1 (NC). Max 24VDC, 1A
6	Alarm Input #2 (A). Max 24VDC, 12mA
7	Alarm Input #1/2 (K).

8 Alarm Input #1 (A). Max 24VDC, 12mA.



Explanation of External I/O Circuit Diagram Example

CAUTION!

• THE LOW VOAGE/CURRENT CIRCUITS AND HIGH VOAGE/ CURRENT CIRCUITS ARE IN THE NETWORK CAMERA CIRCUIT. THE QUALIFIED ELECTRICIAN SHOULD DO THE WIRING NOT BY YOURSELF. INCORRECT WIRING COULD DAMAGE NETWORK CAMERA. YOU COULD RECEIVE THE FATAL ELECTRIC SHOCK.

• THE EXTERNAL I/O IS NOT CAPABLE OF CONNECTING DIRECTLY TO DEVICES THAT REQUIRE LARGE AMOUNTS OF CURRENT. IN SOME CASES, A CUSTOM INTERFACE CIRCUIT (CUSTOMER PROVIDED) MAY HAVE TO BE USED. SERIOUS DAMAGE TO NETWORK CAMERA MAY RESU IF A DEVICE IS CONNECTED TO THE EXTERNAL I/O THAT EXCEEDS ITS ELECTRICAL CAPABILITY.

Appendix C: Troubleshooting &

Frequently Asked Questions

Question	Answer or Resolution
	Features
The video and audio codec is adopted in the Network Camera.	The Network Camera utilizes JPEG compression to providing high quality images. JPEG is a standard for image compression and can be applied to various web browsers without the need to install extra software. The audio codec is ADPCM compression.
The maximum number of users access Network Camera simultaneously.	The maximum number of users is depend on the total bandwidth accessed to Network Camera from clients. The data throughout of Network Camera is around 5~6Mbps. Therefore, the maximum number of connected clients is varying by settings of resolution and frame rate. Obviously, the performance of the each connected client will slow down when many users are logged on.
The Network Camera can be used outdoors or not.	The Network Camera is not weatherproof. It needs to be equipped with a weatherproof case for outdoors using. However, equipped with a weatherproof case will disable the audio function of Network Camera.
	Install Network Camera
Status LED does not light up.	 Check and confirm that the standard AC adaptor, included in packaged, is used. Secure the power connector and re power it on again. If the problem is not solved, the Network Camera might be faulty. Contact your dealer for further help.
The network cabling is required for the Network Camera.	The Network Camera uses Category 5 UTP cable allowing 10 and/or 100 Base-T networking.
The Network Camera will be installed and work if a firewall exists on the network.	If a firewall exists on the network, port 80 is open for ordinary data communication. The Network Camera uses port 80(default) only. This port (or the port you specify from the Configuration screen if you change the default port) needs to be opened on the firewall.
The username and password for the first time or after factory default reset	Username = admin and leave password blank. Note that it's all case sensitivity.
Forgot the username and password	Follow the steps below.1. Restore the factory default setting by press pressing and holding down more than 8 seconds when power on

	National Oceanies
	Network Camera.
Format the ID address of	2. Reconfigure the Network Camera.
Forgot the IP address of	Check IP address of Network Camera by using the IP Finder
the Network Camera.	 Program. Re power the Network Camera if cannot find the unit within
IP Finder program cannot find Network	1 minutes.
Camera.	Do not connect Network Camera over a router. IP Finder
Camera.	program cannot detect Network Camera.
	 If IP address is not assigned to the PC which running IP
	Finder program, then IP Finder program cannot find Network
	Camera. Make sure that IP address is assigned to the PC
	properly.
	• Antivirus software on the PC might interfere with the setup
	program. Disable the firewall of the antivirus software during
	setting up Network Camera.
Internet Explorer does	Make sure that your Internet Explorer is version 5.0 or later. If
not seem to work well	you are experiencing problems, try upgrading to the latest
with the Network	version of Microsoft's Internet Explorer from the Microsoft
Camera	webpage at: http://www.microsoft.com/windows/ie.
Camora	
IP Finder program fails	• Don't leave any space in the name field. Use underline, "_",
to save the network	or dash, "-" to replace the space, "".
parameters.	• Network may have trouble. Confirm the parameters and connections of the Network Camera.
	Access Network Camera
Cannot access the login	• Maybe the IP Address of the Network Camera is already
page and other web	being used by another device or computer. To confirm this
pages of Network	possible problem, disconnect the Network Camera from the
Camera from Internet	network first, and then run the PING utility to check it out.
Explorer	• Maybe due to the network cable. Try correcting your network cable and configuration. Test the network interface
	by connecting a local computer to the Network Camera via a
	crossover cable.
	Make sure the Internet connection and setting is ok.
	Make sure enter the IP address of Internet Explorer is
	correct. If Network Camera has a dynamic address, it may
	have changed since you last checked it.
	Network congestion may prevent the web page appearing
	quickly. Wait for a while.
	The IP address and Subnet Mask of the PC and Network
	Camera must be in the same class of the private IP address
	on the LAN.
	Make sure the http port used by the Network Camera,
	default=80, is forward to the Network Camera's private IP
	address.
	• The port number assigned in your Network Camera might
	not be available via Internet. Check your ISP for available
	port.
	• The proxy server may prevent you from connecting directly

	 to Network Camera, set up not to use the proxy server. Confirm that Default Gateway address is correct. The router needs Port Forwarding feature. Refer to your router's manual for details. Packet Filtering of the router may prohibit access from an external network. Refer to your router's manual for details. Access Network Camera from the Internet with the global IP address of the router and port number of Network Camera. Some routers reject the global IP address to access Network Camera on the same LAN. Access with the private IP address and correct port number of Network Camera. When you use DDNS, you need to set Default Gateway and DNS server address. If it's not working after above procedure, reset Network Camera to default setting and installed it again. If the problem is not solved, the Network Camera might be
	faulty. Contact your dealer for further help.
Image or video does not appear in the main page.	 The first time the PC connects to Network Camera, a pop-up Security Warning window will appear to download ActiveX Controls. When using Windows NT, Windows 2000 or Windows XP, log on with an appropriate account that is authorized to install applications. Network congestion may prevent the Image screen from appearing quickly. You may choose lower resolution to reduce the required bandwidth.
Check the Network Camera's ActiveX is	Go to C:\Windows\Downloaded Program Files and check to see if there is an entry for the file "WebWatch Class". The
installed on your computer	status column should show "Installed". If the file is not listed, make sure your Security Settings in Internet Explorer are configured properly and then try reloading the Network Camera's home page. Most likely, the Network Camera ActiveX control did not download and install correctly. Check your Internet Explorer security settings and then close and
computer Internet Explorer displays the following message: "Your current security settings prohibit downloading ActiveX controls".	status column should show "Installed". If the file is not listed, make sure your Security Settings in Internet Explorer are configured properly and then try reloading the Network Camera's home page. Most likely, the Network Camera ActiveX control did not download and install correctly. Check your Internet Explorer security settings and then close and restart Internet Explorer. Try to browse and log in again. Setup the IE security settings or configure the individual settings to allow downloading and scripting of <i>unsigned</i> ActiveX controls.
computer Internet Explorer displays the following message: "Your current security settings prohibit downloading ActiveX	status column should show "Installed". If the file is not listed, make sure your Security Settings in Internet Explorer are configured properly and then try reloading the Network Camera's home page. Most likely, the Network Camera ActiveX control did not download and install correctly. Check your Internet Explorer security settings and then close and restart Internet Explorer. Try to browse and log in again. Setup the IE security settings or configure the individual settings to allow downloading and scripting of <i>unsigned</i>

characters are displayed.	Encoding or the Character Set of the selected language on the Internet Explorer.
Frame rate is slower	• The traffic of the network and the object of the image affect
than the setting.	the frame rate. The network congestion causes frame rate
than the setting.	slower than the setting.
	U
	• When more than one client were viewing, the frame rate
	becomes slower.
	• Ethernet switching hub can smooth the frame rate especially
	in viewing on the Multi-Camera screen.
Blank screen or very	Your connection to the Network Camera does not have
slow video when audio is	enough bandwidth to support a higher frame rate for the
enabled.	streamed image size. Try reducing the video streaming size
	to 176x144 or 320x240 and/or disabling audio.
	Audio will consume 32 to 64 kbps. Disable audio to improve
	video. Your Internet connection may not have enough
	bandwidth to support streaming audio from the Network
	Camera.
Image Transfer on	Default Gateway and DNS server address should be set up
e-mail or FTP does not	correctly.
work.	• If FTP does not work properly, ask your ISP or network
	administrator about the transferring mode of FTP server.
Pan/Tilt, Zoom and	Click [Refresh] on the Internet Explorer when the
Focus do not work.	communication stops with the Network Camera. The image
(including Click to	will refresh.
Center and Preset	• Other clients may be operating Pan/Tilt.
Positioning)	Pan/Tilt operation has reached the end of corner.
r collorning)	• The Pan/Tilt operation may be locked by turning off Remote
	Camera Control.
Pan/Tilt, Zoom and	There may be a slight delay when you are using the Pan/Tilt
Focus do not work	feature in conjunction with streaming audio and video. If you
smoothly.	find that there is a significant delay while panning or tilting the
Sinootiny.	camera, try disabling the audio streaming and/or reducing the
	video streaming size.
	Video Quality of Network Camera
The focus on the	• The lens is dirty or dust is attached. Fingerprints, dust, stain,
Network Camera is bad.	etc. on the lens can degrade the performance of the
Network Camera is bad.	o 1
	Automatic Focusing feature (for PTZ model). Clean the lens
	with lens cleaner. Or adjust the camera focus manually (for
	PT model)
	• Manual focusing may be set. Press appropriate one of the
	Focus buttons at the operation panel (for PTZ model).
	Blurred images may have been registered when registering
	or modifying the preset button or home position button. Adjust
	the focus in manual focusing again, or press the Auto Focus
	button (for PTZ model).
	• The image may be out of focus, if the object is too near, or
	depending on the zoom position. Move the object off Network
	Camera, or adjust the zoom position (for PTZ model).
	• Some objects are difficult to focus on by Auto Focus button.
	Press the Auto Focus button and put it into operation again.

	When the objects are still out of focus, adjust the focus using manual focusing, or change the objects using Pan/Tilt operation or Zooming features (for PTZ model).
The color of the image is	 Adjust White Balance (for PTZ model).
poor or strange.	• To insure the images you are viewing are the best they can
	be, set the Display property setting (color quality) to 16bit at
	least and 24 bit or higher if possible within your computer.
	•The configuration on the Network Camera image display is
	incorrect. You need to adjust the image related parameters
	such as brightness, contrast, hue and saturation properly.
Image flickers.	Wrong power line frequency makes images flicker. Make
	sure the NTSC or PAL format of your Network Camera.
	 If the object is dark, the image will flicker. Make the
	condition around the Network Camera brighter.
Noisy images occur.	The video images might be noisy if the Network Camera is
	located in a very low light environment. Make the condition
	around the Network Camera brighter.
	Miscellaneous
How to Reboot the	If you just want to reboot system without change anything. Go
Network Camera	to Network page and click SAVE button directly, then system will reboot again.
Can not play the	Have installed Microsoft®'s DirectX 9.0 or later and use the
recorded AVI file	Windows Media Player 9 or later to play the AVI filed
	recorded by the ActiveX.

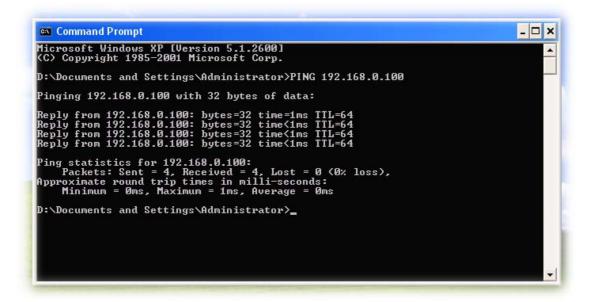
Appendix D: PING IP Address

The PING (stands for Packet Internet Groper) command is used to detect whether a specific IP address is accessible by sending a packet to the specific address and waiting for a reply. It's also a very useful tool to confirm Network Camera installed or if the IP address conflicts with any other devices over the network.

If you want to make sure the IP address of Network Camera, utilize the PING command as follows:

- Start a DOS window.
- Type ping x.x.x.x, where x.x.x.x is the IP address of the Network Camera.

The replies, as illustrated below, will provide an explanation to the problem.



If you want to detect any other devices conflicts with the IP address of Network Camera, also can utilize the PING command but you must disconnect the Network Camera from the network first.

Appendix E: Bandwidth Estimation

The frame rate of video transmitted from the Network Camera depends on connection bandwidth between client and server and quality setting of server. Here is a guideline to help you roughly estimate the bandwidth requirements form your Network Camera.

Image bandwidth is approximately equal to the average frame rate in frames per second multiplied by the average frame data size in kilobits. Frame data size, or the number of bits comprising a single video frame varies a great deal from depending on scene complexity, lighting conditions, camera noise, etc. The table shown below is reference figures. Actual results generated by the Network Camera may be varying.

Image Resolution	Average range of Data Sizes
176 x 144 (QCIF)	20 – 40k bit
320 x 240 (QVGA)	56– 92k bit
352 x 288 (CIF)	64 – 112k bit
640 x 480 (VGA)	160 – 320k bit

For example, streaming 2 fps of 320×240 video requires 112 to 184 kbps (kilobits per second). Therefore, with a 128K upload connection; you will typically see 3 to 6 frames per second with 176 x 144 resolution and 1 to 2 frames per second with 320 x 240 resolution without audio stream.

Note: Audio streaming also takes bandwidth around 32 kbps to 64kbps. Most ADSL/Cable modem upload speeds may not even reach up to 128 kbps. Thus, you may not be able to receive any video while streaming audio on a 128 kbps or lower connection. Even though the upload speed is more than 128kbps, for optimal video performance, disabling audio streaming will get better video performance.

Appendix F: Specifications

Model	PT Network Camera
Control Interface	Internet Explorer
Preset Number	16
Horizontal rotation range	0° to 325°
Vertical rotation range	0° to 90°
O.P Temperature	5°C to 45°C (40°F to 113°F)
Operating Humidity	10% ~ 80%
Power Supply	12V DC ± 10%
Power Consumption	6W max.
Alarm Input/Output	2xIn / 2xOut
Dimension	120*116.5 (DXH)
Camera Module	
Image Pick-up Device	Sharp 1/3" interline transfer CCD sensor
Effective Picture Elements	NTSC:768*494 (H*V), PAL: 752*582 (H*V)
Horizontal Resolution	380 TV lines
Sensitivity	0.2 Lux @ F=2.0
S/N Ratio	More than 48 dB
Gamma Characteristics	0.45
Auto Iris Control	Video-Drive Iris Control
Auto Gain Control	Built in
Auto White Balance	Color Temperature: 2500°K ~ 9500°K.
Synchronous System	Internal, Negative sync.
Video Output	1Vp-p / 75 Ohm
BNC Video Out	Yes
IP Module	
Codec	JPEG, 3 levels

Resolution	704*576, 640*480, 352*288, 320*240, 176*144, 162*120
Frame Rate	Up to 30fps for all resolutions
Audio Streaming	Yes
Compatibility	Windows ME, 2000, XP, 2003
LAN I/F	10/100M
Notification	Email, FTP
RAM	64Mb SDRAM
Flash	16Mb NOR Flash Memory
Image Storing Memory	By CF Card
Operating System	uCLinux
Type Of IP Address Needed	Statistic or Dynamic
Extensible Port	CF Memory Card
Firmware Upgrade	Ethernet
Security	2 Levels, Administrator or user
Viewer	Microsoft® Internet Explorer 5.0 or later
IP Filtering	Yes
Networking Protocol	TCP/IP, HTTP, SMTP, FTP, NTP, DNS, DDNS, ARP and DHCP
Communication Protocol	PPPoE

Appendix G: Time Zone Table

GMT stands for Greenwich Mean Time which is the global time that all time zones are measured from.

(GMT-12:00) International Date Line West (GMT-11:00) Midway Island, Samoa (GMT-10:00) Hawaii (GMT-09:00) Alaska (GMT-08:00) Pacific Time (US & Canada); Tijuana (GMT-07:00) Arizona (GMT-07:00) Chihuahua, La Paz, Mazatlan (GMT-07:00) Mountain Time (US & Canada) (GMT-06:00) Central America (GMT-06:00) Central Time (US & Canada) (GMT-06:00) Guadalajara, Mexico City, Monterrey (GMT-06:00) Saskatchewan (GMT-05:00) Bogota, Lima, Quito (GMT-05:00) Eastern Time (US & Canada) (GMT-05:00) Indiana (East) (GMT-04:00) Atlantic Time (Canada) (GMT-04:00) Caracas, La Paz (GMT-04:00) Santiago (GMT-03:30) Newfoundland (GMT-03:00) Brasilia (GMT-03:00) Buenos Aires, Georgetown (GMT-03:00) Greenland (GMT-02:00) Mid-Atlantic (GMT-01:00) Azores (GMT-01:00) Cape Verde Is. (GMT) Casablanca, Monrovia (GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London (GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna (GMT+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague (GMT+01:00) Brussels, Copenhagen, Madrid, Paris (GMT+01:00) Sarajevo, Skopje, Warsaw, Zagreb (GMT+01:00) West Central Africa (GMT+02:00) Athens, Istanbul, Minsk (GMT+02:00) Bucharest (GMT+02:00) Cairo (GMT+02:00) Harare, Pretoria (GMT+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius (GMT+02:00) Jerusalem (GMT+03:00) Baghdad (GMT+03:00) Kuwait, Riyadh (GMT+03:00) Moscow, St. Petersburg, Volgograd

(GMT+03:00) Nairobi

(GMT+03:30)	Tehran
(GMT+04:00) /	Abu Dhabi, Muscat
(GMT+04:00) B	Baku, Tbilisi, Yerevan
(GMT+04:30) I	Kabul
(GMT+05:00) B	Ekaterinburg
(GMT+05:00) I	Islamabad, Karachi, Tashkent
(GMT+05:30)	Chennai, Kolkata, Mumbai, New Delhi
(GMT+05:45) I	
(GMT+06:00) /	Almaty, Novosibirsk
(GMT+06:00) /	Astana, Dhaka
(GMT+06:00) 9	5ri Jayawardenepura
(GMT+06:30) F	Rangoon
(GMT+07:00) E	Bangkok, Hanoi, Jakarta
(GMT+07:00) I	Krasnoyarsk
(GMT+08:00) 8	Beijing, Chongqing, Hong Kong, Urumqi
	Irkutsk, Ulaan Bataar
(GMT+08:00) I	Kuala Lumpur, Singapore
(GMT+08:00) F	
(GMT+08:00) 1	
	Osaka, Sapporo, Tokyo
(GMT+09:00) 9	
(GMT+09:00) ^v	
(GMT+09:30) /	
(GMT+09:30) [
(GMT+10:00) E	
	Canberra, Melbourne, Sydney
	Guam, Port Moresby
(GMT+10:00) I	
(GMT+10:00) \	
	Magadan, Solomon Is., New Caledonia
	Auckland, Wellington
	Fiji, Kamchatka, Marshall Is.
(GMT+13:00) I	Nuku'alofa

Appendix H: DDNS Application

1. Preface

If you have a Cable modem, xDSL, ISDN or Dialup, this is a great way to host your own **Web Server, FTP Server, Mail Server, Network Camera** or other TCP/IP Service. Get your own domain like www.yourname.com*, www.yourname.com.tw* etc. (Note:This domain must be registered with Internic via registration authorities such as Network Solutions, DirectNIC, Register.com etc). Your domain name's dynamic IP address is automatically tracked by a DDNS server.

Host your own *Web Server, FTP Server, Mail Server, Network Camera* and much much more no matter what your computer's IP address may be and even if you have dialup, DSL or cable modem internet connection where your computer's IP address changes all the time!! DDNS service supports all top level domain names including but not limited to .com, .net, .org, .to, .uk etc.

2. Ethernet Network Environment

Normally, DDNS services is only necessary for the users that could only obtain dynamic IP addresses. As to the users that could obtain the static valid IP address, they do not usually have to apply the DDNS service. Before we decide if DDNS is necessary for the users, we have to check what kind of Ethernet network environment we have to install our Network Camera or IP camera on.

(1) Environment of Fixed Valid IP Network

If users could obtain valid IP addresses, they could save the effort to apply DDNS service. Because the IP address in this environment is fixed, users could input the IP address or domain name of demo site directly in the IE browser.

(2) Environment of Dynamic IP Network

If users is under a environment of dynamic IP network (Dial-up ADSL), they have to apply a domain name in advance. Then apply DDNS service. Finally setup the necessary information of DDNS and PPPoE of the Network Camera or IP camera in order to let the outside administrator be able to access through internet.

3. Application Steps—DDNS & Domain Name

- (1). Visit the following web site : <u>http://www.dyndns.org/</u> (Pink No.1)
- (2). Click "Account" (Pink No. 2)



(3). After the columns show up at the left side, click "Create Account".

🕝 Back 🝷 🕥 🔸 🗶	📔 👔 🌮 Search 👷 Favorites 🜒 Media 🪱	8-8
Address 🙆 http://www.dyne	dns.org/account/	
and a sel		
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	About Services Account	Suppor
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Create Account Login	About Services Account	Suppor
	Your Account	Suppor
Login		Suppor

(4). Fill the application agreement and necessary information.

- a. Input Name
- b. E-mail input and confirmation
- c. Password input and confirmation
- d. Submit all the input information and finish creating a account

Create Account

Please complete the form below to create your account. You will receive an e-mail containing instructions to activate your account. If you do not follow these directions within 48 hours, you will need to recreate your account.
Policy Last Modified: May 4, 2004
1. ACKNOWLEDGMENT AND ACCEPTANCE OF TERMS OF SERVICE
All services provided by Dynamic Network Services, Inc. ("DynDNS") are provided to you (the "Member") under the Terms and Conditions set forth in this Acceptable Use Policy ("AUP") and any other operating rules and policies set forth by DynDNS. The AUP comprises
I have read and agree to the Acceptable Use Policy above $\bigcirc $
Username
Your username will be used to login to your account and make changes.
Username: Input login name
E-mail Address
The e-mail address you enter must be valid. Instructions to activate your account will be sent to the e-mail address provided. You must keep this address current and accounts with invalid e-mail addresses will be removed with no warning. We do not sell our list to anyone. Read more about our <u>privacy policy</u>
E-Mail Address:
Confirm E-Mail Address: Confirm e-mail address
Password
The password you enter will be used to access your account. It must be more than 5 characters and cannot be your username.
Password:
Confirm Password: Confirm login password
Submit

(5). Check your e-mail mailbox. There will be an e-mail with a title "Your DynDNS.org Account Information". Click the hyperlink address to confirm the DDNS service that you just applied. Then DDNS you applied activated.



(6). Enter the web page <u>http://www.dyndns.org/</u> again. Input your username and password that you just applied to login administration interface of DDNS service.



(7). If the correct username and password are input, you can see the following picture at the top-right of the login page.



(8). Click the "Services".

DynDNS.org					
About	Services	Account	Support	Developers	News

(9). Click the "Dynamic DNS" and then click the "Add a host".

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Custom DNS	DNS Serv
Secondary DNS	DINS SELV
MailHop	Custom DN
Domain Registration	Custom DNS
MyWebHop	purchased do
Dynamic DNS	web-based in
Static DNS	resource rec
WebHop	support for d
Pricing	

(10). We could create a domain name without any charge at this step. First, we input the host name. (Pink No.1) Then we pick a domain that is easy to remember. (Pink No.2) Finally, click the "Add Host" to submit the domain name information. (Pink No.3)

Hostname:	->	. dyndns.biz
IP Address: Enable Wildcard: Mail Exchanger (option	For your own domain (e	dyndns.info dyndns.org dyndns.tv dyndns.ws game-host.org game-server.cc

4. Setup the DDNS and PPPoE

At last, users have to enter the web page of Network Camera or IP camera and setup the necessary information of DDNS and PPPoE after the application of DDNS service. Please check the user manual to access the DDNS and PPPoE pages. After saving the modification, restart the device. The external users could browse the Network Camera or IP camera by the input of their domain name.